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NEWS 19 JUN 29 EPFULL adds Simultaneous Left and Right Truncation
                 (SLART) to AB, MCLM, and TI fields
         JUL 09 PATDPAFULL adds Simultaneous Left and Right
NEWS 20
                 Truncation (SLART) to AB, CLM, MCLM, and TI fields
NEWS 21
         JUL 14 USGENE enhances coverage of patent sequence location
                 (PSL) data
NEWS 22
         JUL 14
                CA/CAplus to be enhanced with new citing references
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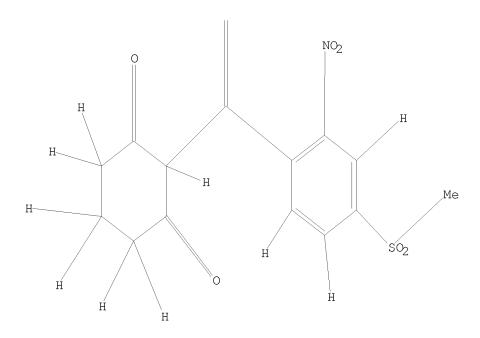
chain nodes : 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 ring nodes : 1 2 3 4 5 6 7 8 9 10 11 12 chain bonds :  $1-21 \quad 2-22 \quad 3-15 \quad 4-17 \quad 5-20 \quad 6-18 \quad 7-23 \quad 7-24 \quad 8-25 \quad 8-26 \quad 9-27 \quad 9-28 \quad 10-13$ 11-15 11-29 12-14 15-16 18-19 ring bonds : 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 exact/norm bonds : 7-8 7-12 8-9 9-10 10-11 10-13 11-12 12-14 15-16 exact bonds :  $1-21 \quad 2-22 \quad 3-15 \quad 4-17 \quad 5-20 \quad 6-18 \quad 7-23 \quad 7-24 \quad 8-25 \quad 8-26 \quad 9-27 \quad 9-28 \quad 11-15$ 11-29 18-19 normalized bonds : 1-2 1-6 2-3 3-4 4-5 5-6

## Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS

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L2 293 SEA SSS FUL L1

=> S L2 AND ISOLATION 5 ISOLATION

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=> FILE CAPLUS

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FILE LAST UPDATED: 14 Jul 2009 (20090714/ED)
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=> S L2

L4 411 L2

=> S L4 AND ISOLATION 290561 ISOLATION

L5 3 L4 AND ISOLATION

=> S L4 AND PURIFICATION 374630 PURIFICATION

L6 3 L4 AND PURIFICATION

=> S L4 AND FILTRATION 263426 FILTRATION

L7 2 L4 AND FILTRATION

=> D L5 IBIB ABS HITSTR 1-3

L5 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2009:263695 CAPLUS

DOCUMENT NUMBER: 150:534265

TITLE: Isolation and characterization of

mesotrione-degrading Bacillus sp. from soil

AUTHOR(S): Batisson, Isabelle; Crouzet, Olivier; Besse-Hoggan, Pascale; Sancelme, Martine; Mangot, Jean-Francois;

Mallet, Clarisse; Bohatier, Jacques

CORPORATE SOURCE: Laboratoire Microorganismes, Genome et Environnement,

UMR 6023 CNRS, Universite Blaise-Pascal, Aubiere,

63177, Fr.

SOURCE: Environmental Pollution (Oxford, United Kingdom)

(2009), 157(4), 1195-1201 CODEN: ENPOEK; ISSN: 0269-7491

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

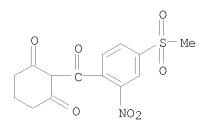
Dissipation kinetics of mesotrione, a new triketone herbicide, sprayed on soil from Limagne (Puy-de-Do.cxa.me, France) showed that the soil microflora were able to biotransform it. Bacteria from this soil were cultured in mineral salt solution supplemented with mesotrione as sole source of carbon for the isolation of mesotrione-degrading bacteria. The bacterial community structure of the enrichment cultures was analyzed by temporal temperature gradient gel electrophoresis (TTGE). The TTGE fingerprints revealed that mesotrione had an impact on bacterial community structure only at its highest concns. and showed mesotrione-sensitive and mesotrione-adapted strains. Two adapted strains, identified as Bacillus sp. and Arthrobacter sp., were isolated by colony hybridization methods. Biodegrdn. assays showed that only the Bacillus sp. strain was able to completely and rapidly biotransform mesotrione. Among several metabolites formed, 2-amino-4-methylsulfonylbenzoic acid (AMBA) accumulated in the medium. Although sulcotrione has a chemical structure closely resembling that of mesotrione, the isolates were unable to degrade it. A Bacillus sp. strain isolated from soil was able to completely and rapidly biotransform the triketone herbicide mesotrione.

IT 104206-82-8, Mesotrione

RL: BSU (Biological study, unclassified); BIOL (Biological study) (isolation and characterization of mesotrione-degrading Bacillus sp. from soil)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)



REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:80142 CAPLUS

DOCUMENT NUMBER: 150:77303

TITLE: Synthesis of 2-[4-(methylsulfonyl)-2-nitrobenzoyl]-1,3-

cyclohexanedione (mesotrione) and determination of its

activity as herbicide

AUTHOR(S): Yang, Jianbo; Pang, Huailin; Huang, Chaoqun

CORPORATE SOURCE: Hunan Research Institute of Chemical Industry,

Changsha, 410007, Peop. Rep. China

SOURCE: Nongyao (2006), 45(11), 746-747, 755

CODEN: NONGFP; ISSN: 1006-0413

PUBLISHER: Nongyao Bianjibu

DOCUMENT TYPE: Journal LANGUAGE: Chinese

OTHER SOURCE(S): CASREACT 150:77303

AB Mesotrione was synthesized via five-step reactions such as nitration, oxidation, acylation, condensation and rearrangement from 4-methylsulfonyl toluene used as the starting reagent. The intermediates 2-nitro-4-(methylsulfonyl)toluene and 2-nitro-4-methylsulfonylbenzoyl chloride could be used directly without isolation from the system. The total yield was 64%, with a purity more than 96%. Field expts. indicated that mesotrione at dosage of 97.5-150 g a.i./ha had effective control of dicotyledoneae (Magnoliopsida) such as Commelina communis L., Abutilon theophrasti Medicus, Polygonaceae, Acalypha australis L., Chenopodium album L., Amaranthus retroflexus L. etc., and also had some effect on monocotyledoneae (Liliopsida) such as Digitaria sanguinalis (L:) Scop., Echinochloa crus-galli (L.) Beauv. and Setaria viridis (L.) Beauv. Mesotrione was safe for corn.

IT 104206-82-8P, Mesotrione

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of mesotrione and determination of its activity as herbicide)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)

L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:983705 CAPLUS

DOCUMENT NUMBER: 146:458195

TITLE: First isolation and characterization of a

bacterial strain that biotransforms the herbicide

mesotrione

AUTHOR(S): Durand, S.; Amato, P.; Sancelme, M.; Delort, A.-M.;

Combourieu, B.; Besse-Hoggan, P.

CORPORATE SOURCE: Laboratoire de Synthese Et Etude de Systemes a Interet

Biologique, UMR 6504 CNRS-Universite Blaise Pascal,

Aubiere, Fr.

SOURCE: Letters in Applied Microbiology (2006), 43(2), 222-228

CODEN: LAMIE7; ISSN: 0266-8254

PUBLISHER: Blackwell Publishing Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

AB The aim of this study was to find and characterize a fungal or bacterial strain capable of metabolizing mesotrione, a new selective herbicide for control of broad-leaved weeds in maize. This strain was isolated from

cloud water and showed close phylogenetic relationship with strains belonging to the Bacillus genus, based on 16S rRNA gene alignment. Kinetics of mesotrione degradation were monitored by high-performance liquid chromatog. and in situ 1H NMR spectroscopy at different concns. Mesotrione was completely biotransformed even at 5 mmol 1-1 concentration 2-Amino-4-methylsulfonyl benzoic acid (AMBA) was identified as one of the metabolites, but was not the major one. This study reports the first rapid mesotrione biotransformation by a pure bacterial strain and the formation of several metabolites including AMBA. This bacterium isolated from cloud water is the first pure strain capable of rapidly degrading mesotrione.

IT 104206-82-8, Mesotrione

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(first isolation and characterization of a bacterial strain that biotransforms the herbicide mesotrione)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L6 IBIB ABS HITATR 1-3
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ALL ----- BIB, AB, IND, RE APPS ----- AI, PRAI BIB ----- AN, plus Bibliographic Data and PI table (default) CAN ----- List of CA abstract numbers without answer numbers CBIB ----- AN, plus Compressed Bibliographic Data CLASS ----- IPC, NCL, ECLA, FTERM DALL ----- ALL, delimited (end of each field identified) DMAX ----- MAX, delimited for post-processing FAM ----- AN, PI and PRAI in table, plus Patent Family data FBIB ----- AN, BIB, plus Patent FAM IND ----- Indexing data IPC ----- International Patent Classifications MAX ----- ALL, plus Patent FAM, RE PATS ----- PI, SO SAM ----- CC, SX, TI, ST, IT SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;

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## => D L6 IBIB ABS HITSTR 1-3

ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:338928 CAPLUS

DOCUMENT NUMBER: 147:15308

TITLE: Photodegradation of sulcotrione in various aquatic environments and toxicity of its photoproducts for

some marine micro-organisms

Chaabane, Hanene; Vulliet, Emmanuelle; Joux, Fabien; AUTHOR(S):

Lantoine, Francois; Conan, Pascal; Cooper,

Jean-Francois; Coste, Camille-Michel

CORPORATE SOURCE: Laboratoire de Chimie des Biomolecules et de

l'Environnement, Centre de Phytopharmacie, Universite

de Perpignan, Perpignan, 66860, Fr.

SOURCE: Water Research (2007), 41(8), 1781-1789

CODEN: WATRAG; ISSN: 0043-1354

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

AB Photochem. behavior of sulcotrione, a triketone herbicide, was studied in a variety of aqueous solns. including natural waters (sea and river) under laboratory conditions. Photodegran. expts. were carried out under two

irradiation

systems (UV-B and simulated solar radiation) in order to evaluate kinetics of active ingredient. The degradation kinetics, more rapid under UV-B radiation than solar simulator, followed a first-order reaction (photolysis half-lives 3-50 h) and appeared strongly dependent on water origin, pH and mol. structure of the herbicide. Dissolved organic matter showed a retarding effect while low concns. of nitrates had no effect on photolysis rate. Identification of photoproducts indicated that hydrolysis, a pH-dependent process (no degradation at pH >6 but at pH =3, k =0.0344/h), could be photoassisted. These results were compared to those of mesotrione, another triketone herbicide, which appeared more stable under UV-B irradiation Toxicol. studies on 2 marine heterotrophic bacteria and one cyanobacterium showed absence of effects  $\leq 100~\mu g/L$  for both sulcotrione and its photoproducts.

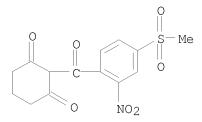
IT 104206-82-8, Mesotrione

RL: POL (Pollutant); OCCU (Occurrence)

(photodegrdn. of sulcotrione in various aquatic environments and toxicity of its photoproducts to marine microorganisms)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:346978 CAPLUS

DOCUMENT NUMBER: 142:392176

TITLE: Process for the preparation and purification of mesotrione using mesotrione enolate formation

INVENTOR(S): Wichert, Julie Marie; Benke, Alan Henry;

Guidetti-Grept, Regine Laure

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

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KIND DATE APPLICATION NO. DATE
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           CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
           GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
           LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
           NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
           TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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           EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
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                      Α1
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    CN 1860102
                                                            20041001
                     С
    CN 100378071
                            20080402
    PRIORITY APPLN. INFO.:
                                       WO 2004-EP10960 W 20041001
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AB A process for reducing the levels of impurities in mesotrione is described comprising: (i) forming a mesotrione enolate (e.g., the potassium enolate) in an aqueous solvent; (ii) carrying out one or more purification processes

adsorption, distillation, etc.); and (iii) crystallizing the purified mesotrione out

of solution

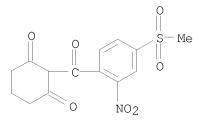
104206-82-8P, Mesotrione

RL: PEP (Physical, engineering or chemical process); PUR (Purification or recovery); PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)

(process for the preparation and purification of mesotrione using mesotrione enolate formation)

104206-82-8 CAPLUS RN

1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX CN NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:754346 CAPLUS

DOCUMENT NUMBER: 137:262844
TITLE: Purification of

2-nitro-4-methylsulfonylbenzoic acid

INVENTOR(S): Javdani, Kambiz; Rodriguez, Gilbert; Muxworthy, James

Peter

PATENT ASSIGNEE(S): Syngenta Limited, UK SOURCE: PCT Int. Appl., 12 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.					KIND DATE				APPLICATION NO.					DATE				
	WO 2002076934 WO 2002076934									WO 2002-GB1433						20020325		
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	RW:	GH, KG, GR,	GM, KZ, IE,	KE, MD, IT,	LS, RU, LU,	MW, TJ, MC,		SD, AT, PT,	SL, BE, SE,	SZ, CH, TR,	CY,	DE,	DK,	ES,	FI,	FR,	GB,	
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US 7285678	B2	20071023				
PRIORITY APPLN. INFO.:			US	2001-275061P	P	20010326
			WO	2002-GB1433	W	20020325

AB A method for removing impurities from 2-nitro-4-methylsulfonylbenzoic acid comprises at least two of the following steps, in any order: (a) dissolving 2-nitro-4-methylsulfonylbenzoic acid in water at a pH of 2-10, followed by filtration; (b) contacting an aqueous solution of 2-nitro-4-methylsulfonylbenzoic acid with activated carbon at a pH of 2-10; (c) treating an aqueous solution of 2-nitro-4-methylsulfonylbenzoic acid with sufficient base to hydrolyze undesired nitro and dinitro substituted impurities; followed by maintaining the resulting aqueous solution comprising 2-nitro-4-methylsulfonylbenzoic acid at a temperature of up to about 95°C, and adjusting the pH of the solution to about a pH which is sufficient to effect crystallization of 2-nitro-4-methylsulfonylbenzoic acid

upon

cooling.

IT 104206-82-8P, Mesotrione

RL: IMF (Industrial manufacture); PREP (Preparation)

(purification of 2-nitro-4-methylsulfonylbenzoic acid for preparation of)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L7 IBIB ABS HITSTR -12

L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:346978 CAPLUS

DOCUMENT NUMBER: 142:392176

TITLE: Process for the preparation and purification of mesotrione using mesotrione enolate formation

INVENTOR(S): Wichert, Julie Marie; Benke, Alan Henry;

Guidetti-Grept, Regine Laure

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

						KIND DATE			APPLICATION NO.						DATE				
	WO								WO 2004-EP10960						20041001				
		W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	AZ,	BA,	BB,	ВG,	BR,	BW,	ΒY,	BZ,	CA,	CH,	
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	KP,	KR,	KΖ,	LC,	
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				TD,															
		2004279545																	
		2537986								EP 2004-765733									
	EР																		
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A process for reducing the levels of impurities in mesotrione is described comprising: (i) forming a mesotrione enolate (e.g., the potassium enolate) in an aqueous solvent; (ii) carrying out one or more purification processes

adsorption, distillation, etc.); and (iii) crystallizing the purified mesotrione out

of solution

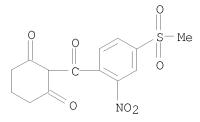
104206-82-8P, Mesotrione

RL: PEP (Physical, engineering or chemical process); PUR (Purification or recovery); PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)

(process for the preparation and purification of mesotrione using mesotrione enolate formation)

104206-82-8 CAPLUS RN

1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX CN NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:754346 CAPLUS

DOCUMENT NUMBER: 137:262844

TITLE: Purification of 2-nitro-4-methylsulfonylbenzoic acid INVENTOR(S): Javdani, Kambiz; Rodriguez, Gilbert; Muxworthy, James

Peter

PATENT ASSIGNEE(S): Syngenta Limited, UK SOURCE: PCT Int. Appl., 12 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.					KIND DATE				APPLICATION NO.						DATE		
					A2 20021003 A3 20030220			WO 2002-GB1433						20020325			
		AE, CO, GM, LS, PL,	AG, CR, HR, LT, PT,	AL, CU, HU, LU, RO,	AM, CZ, ID, LV, RU,	AT, DE, IL, MA, SD,	AU, DK, IN, MD, SE, YU,	AZ, DM, IS, MG, SG,	DZ, JP, MK, SI,	EC, KE, MN, SK,	EE, KG, MW,	ES, KP, MX,	FI, KR, MZ,	GB, KZ, NO,	GD, LC, NZ,	GE, LK, OM,	GH, LR, PH,
	R₩:	GH, KG, GR,	GM, KZ, IE,	KE, MD, IT,	LS, RU, LU,	MW, TJ, MC,	MZ, TM, NL,	SD, AT, PT,	SL, BE, SE,	SZ, CH, TR,	CY,	DE,	DK,	ES,	FI,	FR,	GB,
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JP	R 2002007414 P 2004525145 P 3911237				T			0819		BR 2002-7414 JP 2002-576196							
	J 2287521 C2 20061120 RU 2003-131328 V 224091 B 20041121 TW 2002-91114621																

IN 2003MN00707	A	20050624	IN	2003-MN707		20030717
ZA 2003006327	A	20040903	ZA	2003-6327		20030814
KR 858546	B1	20080912	KR	2003-711328		20030828
MX 2003008279	A	20031212	MX	2003-8279		20030912
US 20040171872	A1	20040902	US	2004-472962		20040409
US 7285678	B2	20071023				
PRIORITY APPLN. INFO.:			US	2001-275061P	P	20010326
			WO	2002-GB1433	W	20020325

AB A method for removing impurities from 2-nitro-4-methylsulfonylbenzoic acid comprises at least two of the following steps, in any order: (a) dissolving 2-nitro-4-methylsulfonylbenzoic acid in water at a pH of 2-10, followed by filtration; (b) contacting an aqueous solution of 2-nitro-4-methylsulfonylbenzoic acid with activated carbon at a pH of 2-10; (c) treating an aqueous solution of 2-nitro-4-methylsulfonylbenzoic acid with sufficient base to hydrolyze undesired nitro and dinitro substituted impurities; followed by maintaining the resulting aqueous solution comprising 2-nitro-4-methylsulfonylbenzoic acid at a temperature of up to about 95°C, and adjusting the pH of the solution to about a pH which is sufficient to effect crystallization of 2-nitro-4-methylsulfonylbenzoic acid upon

cooling.

IT 104206-82-8P, Mesotrione

RL: IMF (Industrial manufacture); PREP (Preparation)

(purification of 2-nitro-4-methylsulfonylbenzoic acid for preparation of)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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NEWS 9 APR 28 Limits doubled for structure searching in CAS REGISTRY

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